

Crossword Puzzle



A 10×10 Crossword grid is provided to you, along with a set of words (or names of places) which need to be filled into the grid. Cells are marked either `+` or `-`. Cells marked with a `-` are to be filled with the word list.

The following shows an example crossword from the input *crossword* grid and the list of words to fit, *words* = `[POLAND, LHASA, SPAIN, INDIA]`:

```
Input      Output
+++++
+-----+ +POLAND+++
+++H+++++
+++A+++++
+-----+ +++SPAIN++
+++A++N+++
+++++D+++
+++++I+++
+++++A+++
+++++
POLAND;LHASA;SPAIN;INDIA
```

Function Description

Complete the *crosswordPuzzle* function in the editor below. It should return an array of strings, each representing a row of the finished puzzle.

crosswordPuzzle has the following parameter(s):

- *crossword*: an array of 10 strings of length 10 representing the empty grid
- *words*: a string consisting of semicolon delimited strings to fit into *crossword*

Input Format

Each of the first 10 lines represents *crossword*`[i]`, each of which has 10 characters, *crossword*`[i][j]`.

The last line contains a string consisting of semicolon delimited *words*`[i]` to fit.

Constraints

$$1 \leq |words| \leq 10$$

$$crossword[i][j] \in \{+, -\}$$

$$words[i][j] \in \text{ascii}[A - Z]$$

Output Format

Position the words appropriately in the 10×10 grid, then return your array of strings for printing.

Sample Input 0

```
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
LONDON;DELHI;ICELAND;ANKARA
```

Sample Output 0

```
+L+++++++
+O+++++++
+N+++++++
+DELHI+++
+O+++C++++
+N+++E++++
+++++L++++
++ANKARA++
+++++N++++
+++++D++++
```

Sample Input 1

```
+-----+
+-----+
+-----++
+-----+
+-----+
+-----++
+-----++
+-----+
+++++-----
+++++-----
+++++-----
AGRA;NORWAY;ENGLAND;GWALIOR
```

Sample Output 1

```
+E+++++++
+N+++++++
+GWALIOR++
+L+++++++
+A+++++++
+NORWAY+++
+D+++G++++
+++++R++++
+++++A++++
+++++-----
```

Sample Input 2

```
XXXXXX-XXX
XX-----XX
XXXXXX-XXX
XXXXXX-XXX
XXX-----X
XXXXXX-X-X
XXXXXX-X-X
XXXXXXXXXX-X
XXXXXXXXXX-X
XXXXXXXXXX-X
XXXXXXXXXX-X
ICELAND;MEXICO;PANAMA;ALMATY
```

Sample Output 2

```
XXXXXXXXXX
XXMEXICOOX
XXXXXXXXEXX
XXXXXXLXXX
XXXPANAMAX
XXXXXXNXLX
XXXXXXDXMX
XXXXXXXXXAX
XXXXXXXXXTX
XXXXXXXXXYX
```